

MARKED-UP CLAIMS

3. An array according to [either] claim 1 [or 2] wherein any edges defining the boundary of the reflective surfaces are oriented so as to be oblique to the direction of incident radar for a given range of incident directions.
4. An array according to [any one of claims 1 to 3] claim 1 wherein the reflective surfaces are oriented so as to reflect an incident radar signal by up to about 30 degrees.
5. An array according to [any one of claims 1 to 3] claim 1 wherein the reflective surfaces are oriented so as to reflect an incident radar signal by up to about 15 degrees.
6. An array according to [any one of claims 1 to 5] claim 1 wherein the reflective surfaces are oriented so as to reflect an incident radar signal by up to about 8 to 10 degrees.
7. An array according to [any one of claims 1 to 6] claim 1 wherein the element is triangular, polyhedral, pyramidal or prismatic in shape or in cross-section.
8. An array according to [any one of claims 1 to 6] claim 1 wherein the element is an elongated triangle, elongated polyhedron or elongated pyramid.
9. An array according to [any one of claims 1 to 8] claim 1 wherein the element defines an apex disposed in a region which is forward relative to the planar faces of the reflective surfaces and collinear with respect to the incident radar signal.
10. An array according to [any one of claims 1 to 9] claim 1 wherein the array comprises a plurality of uniform elements.
12. An array according to [any one of claims 1 to 11] claim 1 formed from a lightweight material.
13. An array according to [any one of claims 1 to 12] claim 1 wherein the elements are perforated.
14. An array according to [any one of claims 1 to 13] claim 1, wherein the array is formed from a mesh material.
15. An array according to [any one of claims 1 to 14] claim 1, wherein said array is in roll or sheer form.
17. An array according to [any one of claims 1 to 15] claim 1 wherein the elements have a thickness in the range of from about 0.25mm to 15mm.
19. A vessel have a structure to which is attached at least one array as claimed in claim 1 [any preceding claim].
20. A method of retrofitting an array to a vessel to reduce its radar signature, the array being as claimed in [any one of claims 1 to 18] claim 1, the method including the step of attaching to surfaces of the vessel structure the array wherein the arrangement when attached to surfaces of the vessel structure results in the faces being oriented so as to reflect an incident radar signal in a direction away from its direction of incidence for a given range of incident directions.

22. A method according to claim 20 [or 21], wherein the vessel structure comprises any surface on the structure capable of reflecting a radar signal.

23. A method according to [any one of claims 20 to 22] claim 20, wherein the arrangement of elements on the vessel structure is such that the facets of the elements reflect the incident radar signal away from a threat direction.

24. A method according to [any one of claims 20 to 23] claim 20, wherein the array comprises a plurality of sheets capable of being joined together.

25. A method for retrofitting an array to a vessel to reduce its radar signature, the array being as claimed [in any one of claims 1 to 18] claim 1, the method including the step of fastening to surfaces of the vessel structure in sheet form one or more arrays comprising a plurality of uniformly shaped elements being triangular, polyhedral, pyramidal or prismatic in shape and having edges defining the boundary of the reflective surfaces being such that the faces and the edges are oblique to the direction of incident radar for a given range of incident directions, the arrangement being such that when fastened to surfaces of the vessel structure the reflective surfaces are oriented so as to reflect an incident radar signal by up to about 30 degrees away from its direction of incidence for a given range of incident directions.

26. A retrofitted vessel [retrofitted according to] made by the method [of any one of claims 20 to 25] of claim 20.